

Claims

What is claimed is:

1. A method for scheduling a plurality of mobile units for data transmission, the method comprising the steps of:

determining a plurality of mobile units that require data transmission;

determine power control feedback information for each mobile unit within the plurality of mobile units that require data transmission; and

10 schedule the plurality of mobile units for data transmission based on their power control feedback information.

2. The method of claim 1 further comprises the step of determining C/I information for each mobile unit within the plurality of mobile units and scheduling the plurality of mobile units additionally based on C/I.

15 3. The method of claim 1 wherein the step of scheduling the plurality of mobile units for data transmission comprises the step of scheduling the plurality of mobile units for data transmission over a common channel shared by the plurality of mobile units.

20 4. The method of claim 2 wherein the step of determining C/I information for each mobile unit comprises the step of determining feedback information of a common channel.

25 5. An apparatus for scheduling mobile units for data transmission, the apparatus comprising:

a channel statistic estimator, wherein the channel statistic estimator has power control information for a plurality of mobile units as an input and outputs a power-control statistic based on the power control information;

30 a scheduler having the power-control statistic as an input and outputting scheduled mobile units based on the power control statistic.

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- 6. The apparatus of claim 5 wherein the channel statistic estimator additionally has C/I feedback information for the plurality of mobile units as an input and outputs a statistic based on both power control and C/I information for each mobile unit.
 - 7. The apparatus of claim 6 wherein the C/I information is C/I feedback information for a common channel shared by the plurality of mobile units.